

Technical Data Sheet

❖ Alfater XL®



ALFATER XL A90I 4GP0000

MOCOM

Base Polymer	Thermoplastic Vulcanisate (PP+EPDM)
Colour	natural color, bright inherent color, black
Service Temperature	max. range (depending on load, geometry, etc.) -40-125 °C
Special Features	low emission, good colorability, easy flow, good weathering resistance, good chemical resistance, good ozone resistance, good hot air resistance, good hydrolysis resistant
Market Segment	Automotive, building and construction, do-it-yourself, electrical and electronic, sport and leisure, Furniture
Application Area	injection moulded parts
Typical Applications	seals, sealing lip, handles, racking / shelving, soft touch elements, impact protection / shock absorber, protection caps, thin walled parts, profile, cable ducts, casters, 2K components
Adhesion to	Polypropylene Homopolymer, Polypropylene Copolymer, Polyethylene, Thermoplastic Vulcanisate (PP+EPDM), Thermoplastic Olefin Elastomer, Thermoplastic Elastomer general

Pre-Drying Conditions	in a dry air (dessiccant) dryer 70-80 °C for 2-4 h max. moisture content <0,10 %
Processing Injection Moulding	melt temperature 195-230 °C mould temperature 10-70 °C injection speed middle - high back pressure (hydraulic) >3 bar holding pressure 50-70% of injection pressure
Storage	dry, protected from light tightly sealed

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Tensile Stress at 100% Elongation (Type 2)	5	MPa	ISO 37
Tensile Strength (Type 2)	8.5	MPa	ISO 37
Tear Strength (Method Ba)	43	kN/m	ISO 34-1
Elongation at Break (Type 2)	500	%	ISO 37
Shore Hardness A (15s)	90	-	ISO 868
Thermal Properties			
Compression Set (22h / 100 °C / 25% / Type A)	60	%	ISO 815
Compression Set (22h / 70 °C / 25% / Type A)	50	%	ISO 815
Compression Set (72h / 22 °C / 25% / Type A)	34	%	ISO 815
Compression Set (72h / 125 °C / 25% / Type A)	80	%	ISO 815

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Electrical Properties

Tracking Resistance (CTI)	600	-	IEC 60112
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Rheological Properties

Shrinkage (lengthwise, 24h)	1.4 - 1.8	%	ISO 294-4
Shrinkage (lateral, 24h)	1.1 - 1.4	%	ISO 294-4
Spiral Flow (2 mm wall thickness)	67	cm	-

Physical Properties

Density	940	kg/m ³	ISO 1183
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Ageing Properties

Ozone resistance (method A)	passed	-	ISO 1431-1A
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Diagrams

Dynamic Shear modulus-temperature

